The background of the page features a large, stylized graphic element consisting of several concentric circles and arcs in shades of gray and black, resembling a target or a camera lens.

HIKVISION

E-series HD Camera

User Manual

UD.6L0201D1062A01

www.hikvision.com

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

This manual applies to

DS-2CE5512P (N)	DS-2CE5582P(N)
DS-2CE5512P (N)-IR	DS-2CE5582P(N)-IR
DS-2CE5582P (N)-IR1 (IR3)	DS-2CE1582P (N)-IR1 (IR3)
DS-2CE5512P (N)-IRP	DS-2CE5582P(N)-IRP
DS-2CE1512P (N)-IR	DS-2CE1582P(N)-IR

This manual may contain several technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

DISCLAIMER STATEMENT

“Underwriters Laboratories Inc. (“UL”) has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in UL’s Standard(s) for Safety, UL60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product. **UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT.”**

0100001030527

Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the

Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into **Warnings** and **Cautions**.

Warnings: Serious injury or death may occur if any of the warnings are neglected.

Cautions: Injury or equipment damage may occur if any of the cautions are neglected.

	
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage.



Warnings

- Please adopt the power adapter which can meet the safety extra low voltage (SELV) request. And source with DC 12V or AC 24V (depending on models) according to the IEC60950-1 and Limited Power Source standard.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)
- To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture.

- This installation should be made by a qualified service person and should conform to all local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- Please make sure that the ceiling can support more than 50(N) Newton gravities if the camera is fixed to the ceiling.



Cautions

- Make sure the power supply voltage is correct before using the camera.
- Do not drop the camera or subject it to physical shock.
- Do not touch sensor modules with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensor from dirt.
- Do not aim the camera at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor will not be exposed to the laser beam.
- Do not place the camera in extremely hot or cold temperatures (the operating temperature should be between -40°C ~ 60°C), dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- Do not let water and any liquid flow into the camera.

- While shipping, the camera should be packed in its original packing, or packing of the same texture.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

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1 Introduction

1.1 Product Features

This camera adopts high performance DIS and advanced print circuit board design technology. It possesses of high resolution, low distortion, and low noise features, etc. It is extremely suitable for supervisory system and image processing system.

The main features of the E-series cameras are as follows.

- High-resolution for the clear and bright image;
- IR cut filter for auto day/night switching (not supported by DS-2CE5512P(N) and DS-2CE5582P(N));
- Easy to get high quality pictures and video with high SNR (Signal to Noise Ratio) feature;
- Auto-electronic shutter control to adapt to various surveillance environments;
- Auto-Gain Control for surveillance in low illumination scenario and self-adaptive to different lightening environments;
- High color rendition with Auto White Balance function;
- Bullet camera adopts an advanced product design and the mounts of them support wiring from inside out;
- Bullet camera adopts three-axis (pan/tilt/rotation) adjustment for optimum surveillance angles and position;
- Dome camera adopts patent universal adjustable structure providing convenient adjustment and high reliability.

1.2 Appearance of Camera



Figure 1-1 DS-2CE5512P(N) and DS-2CE5582P(N)



Figure 1-2 DS-2CE5512P(N)-IR and DS-2CE5582P(N)-IR



Figure 1-3 DS-2CE5512P(N)-IRP and DS-2CE5582P(N)-IRP



Figure 1-4 DS-2CE1512P(N)-IR and DS-2CE1582P(N)-IR



Figure 1-5 DS-2CE1582P(N)-IR1(IR3)



Figure 1-6 DS-2CE5582P(N)-IR1(IR3)

2 Installation

Before you start:

When mounting the camera, for the cement wall, you need to mount the base with expansion screws. For the wooden wall, you need to mount the base with self-tapping screws. Please ensure that the wall is strong enough to withstand more than 3 times the weight of the camera and the bracket. If the wall is not strong enough, the camera may fall and cause serious damage.

Note: Before any operation, please make sure that the device in the package is in good condition and all the assembly parts are completed.

2.1 Installation of DS-2CE5512P(N) and DS-2CE5582P(N) Dome Camera

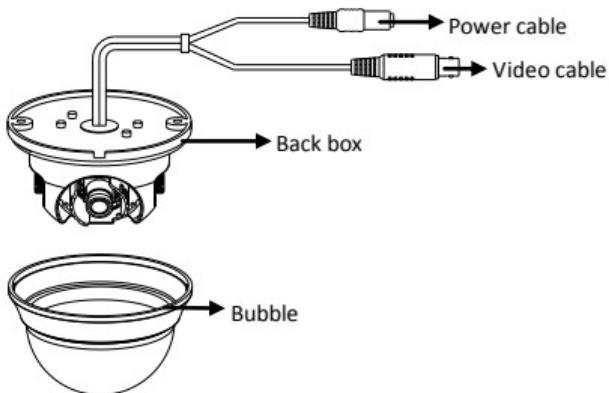


Figure 2-1 Overview

Steps:

1. Rotate the bubble counterclockwise and remove it.

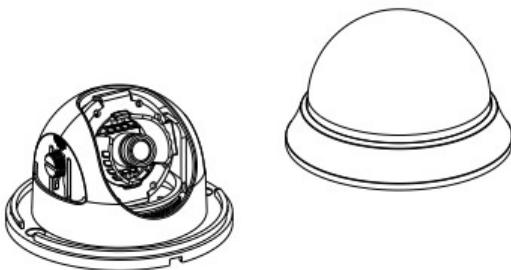


Figure 2-2 Remove the Bubble

2. Drill the holes on the wall with the supplied drilling template.
3. Route the cables inside the ceiling or on the surface. If you want to route the cables inside the ceiling, drill the cable hole in the ceiling for wiring; pull all cables through the hole and terminate all wires (if not already terminated).
4. Connect the video cable and power cable and secure the back box of the camera to the ceiling with the screws.

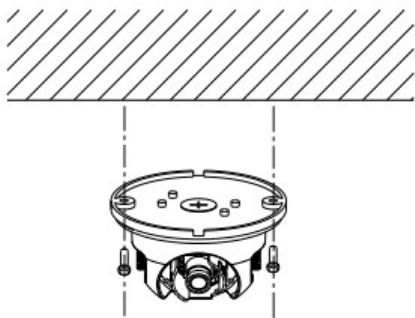


Figure 2-3 Secure Back Box to the Ceiling

5. Three-axis adjustment.

- 1) Preview the image of the camera on a monitor.
- 2) Rotate the panning table to adjust the panning position of the camera. The adjusting range is from 0 degree to 355 degrees.
- 3) Loosen the tilting lock screw.
- 4) Rotate the tilting table to adjust the tilting position of the camera. The adjusting range is from 0 degree to 90 degrees.
- 5) Tighten the tilting lock screw.
- 6) Rotate the lens to adjust the azimuth angle of the image. The rotating movement range is from 0 degree to 355 degrees.

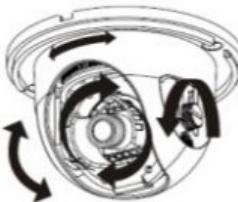


Figure 2-4 Adjust the Lens

6. Rotate the bubble clockwise to reinstall it to the dome camera.

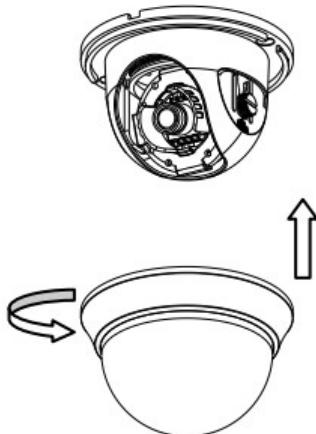


Figure 2-5 Reinstall the Bubble

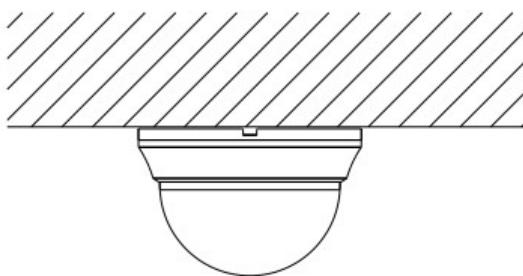


Figure 2-6 Finish the Installation

Installation with junction box:

Steps:

1. Rotate the bubble counterclockwise and remove it

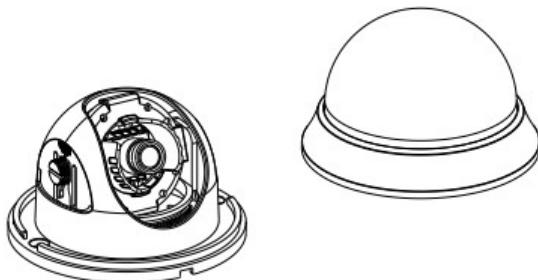


Figure 2-7 Remove the Bubble

2. Secure the DS-1244ZJ (not supplied) to the single gang box with screws.

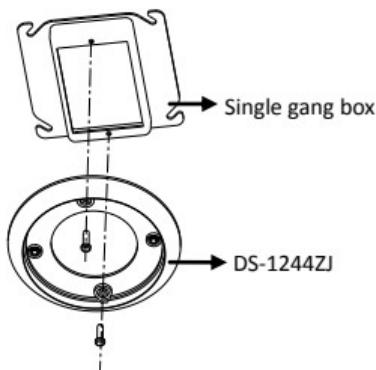


Figure 2-8 Secure the DS-1244ZJ

3. Route the cables inside the ceiling or on the surface. If you want to route the cables inside the ceiling, drill the cable hole in the ceiling for wiring; pull all cables through the hole and terminate all wires (if not already terminated).
4. Connect the video cable and power cable and secure the back box of the camera to the DS-1244ZJ with the screws.

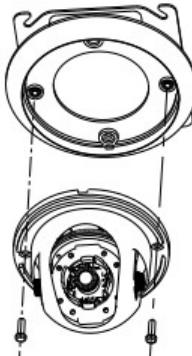


Figure 2-9 Secure the Back Box

5. Three-axis adjustment.
6. Rotate the bubble clockwise to reinstall it to the dome camera.

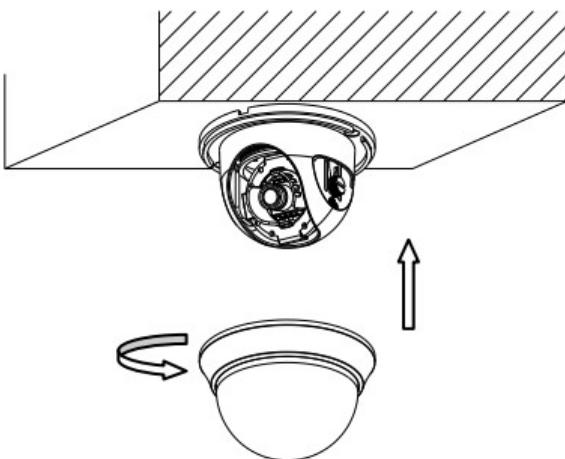


Figure 2-10 Reinstall the Bubble

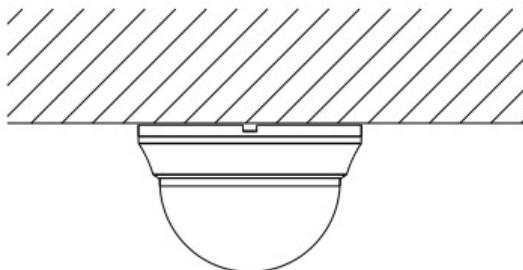


Figure 2-11 Finish the Installation

2.2 Installation of DS-2CE5512P(N)-IR and DS-2CE5582P(N)-IR Dome Camera

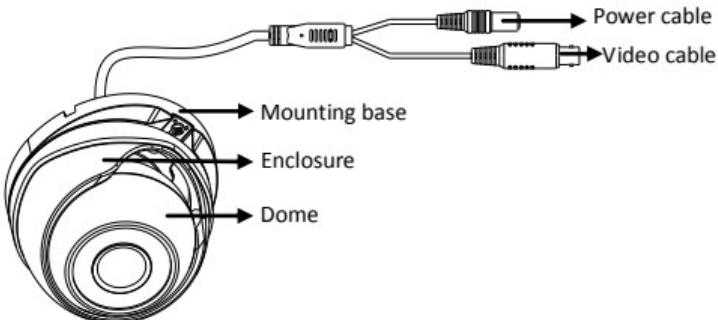


Figure 2-12 Overview

Steps:

1. Loosen the screws on the dome to remove the enclosure.

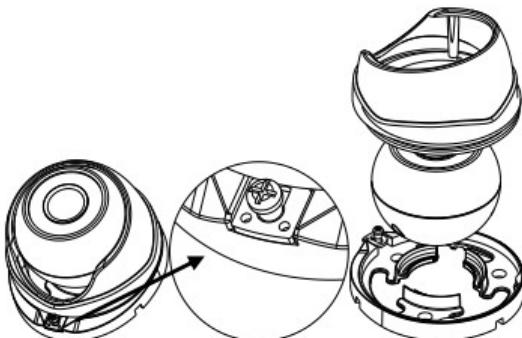


Figure 2-13 Remove the Enclosure

2. Drill the holes on the wall with the supplied drilling template.
3. Route the cables inside the ceiling or on the surface. If you want to route the cables inside the ceiling, drill the cable hole in the ceiling for wiring; pull all cables through the hole and terminate all wires (if not already terminated).
4. Secure the mounting base of dome camera to the ceiling with the screws.

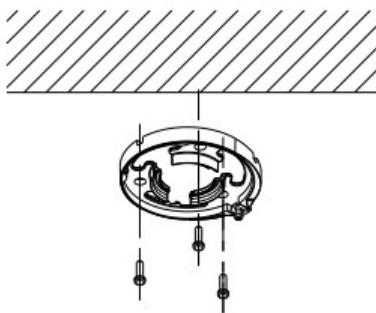


Figure 2-14 Secure the Mounting Base

5. Connect the video cable and power cable and install the dome and the enclosure to match the mounting base and fasten the set screw slightly but not tightly, so that you can make adjustments to the camera and lens.

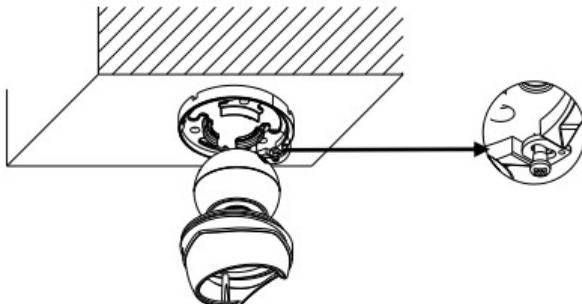


Figure 2-15 Install the Enclosure and Dome

6. Preview the image of the camera on a monitor and adjust the lens to the optimum angle and fasten the set screw tightly.

Note: The adjustable tilt angle range is $0^{\circ} \sim 75^{\circ}$.

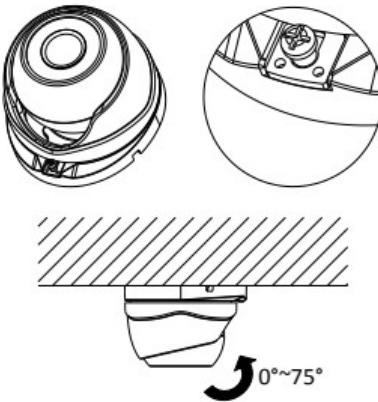


Figure 2-16 Fasten the Set Screw

2.3 Installation of DS-2CE5512P(N)-IRP and DS-2CE5582P(N)-IRP Dome Camera

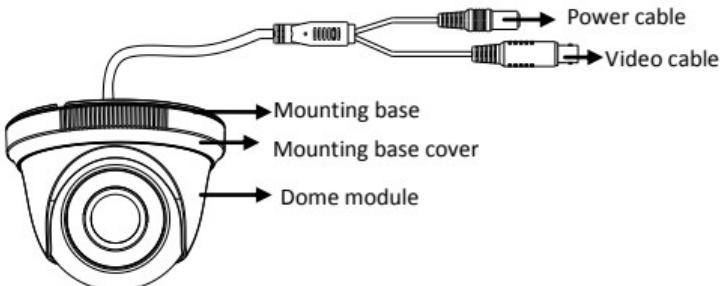


Figure 2-17 Overview

Steps:

1. Remove the dome module from the mounting base.

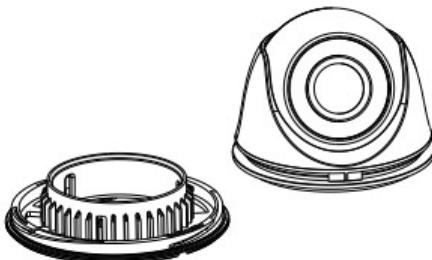


Figure 2-18 Remove the Dome Module

2. Drill the holes on the wall with the supplied drilling template.
3. Attach the mounting base to the ceiling and secure it with screws.

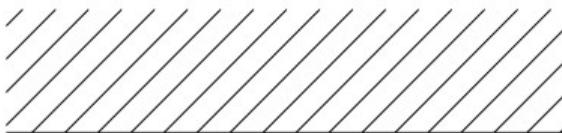


Figure 2-19 Mount the Mounting Base

4. Route the cables inside the ceiling or on the surface. If you want to route the cables inside the ceiling, drill the cable hole in the ceiling for wiring; pull all cables through the hole and terminate all wires (if not already terminated).
5. Connect the video cable and power cable and push the camera module to the mounting base until it is fixed.

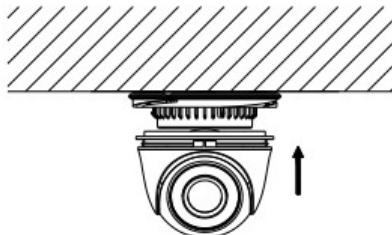


Figure 2-20 Mount the Dome Module

6. Attach the mounting base cover to the mounting base and rotate it slightly but not tightly, so that you can make adjustments to the camera and lens.

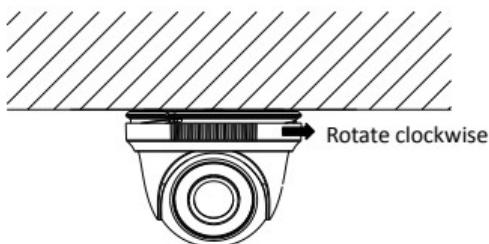


Figure 2-21 Attach the Mounting Base Cover

7. Three-axis adjustment.
 - 1). Preview the image of the camera on a monitor.
 - 2). Rotate the panning table to adjust the panning position of the camera. The adjusting range is from 0 degree to 360 degrees.
 - 3). Loosen the tilting lock screw.
 - 4). Rotate the tilting table to adjust the tilting position of the camera. The adjusting range is from 0 degree to 85 degrees.
 - 5). Tighten the tilting lock screw.
 - 6). Rotate the lens to adjust the azimuth angle of the image. The rotating movement range is from 0 degree to 360 degrees.

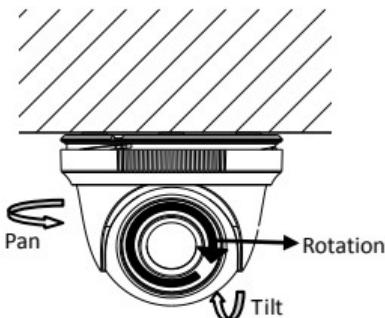


Figure 2-22 Adjust the lens

8. Tighten the mounting base cover again tightly to secure the dome camera.

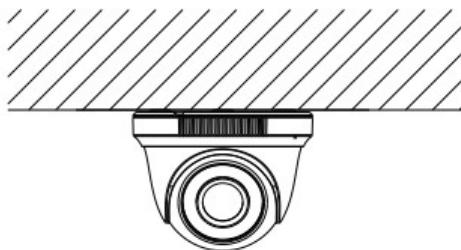


Figure 2-23 Finish the Installation

2.4 Installation of DS-2CE1512P(N)-IR and DS-2CE1582P(N)-IR Bullet Camera

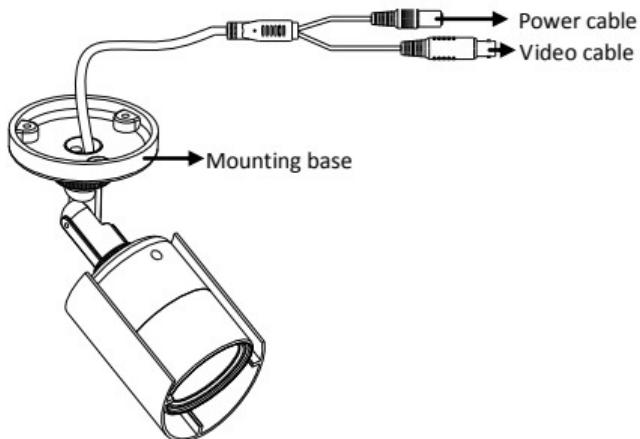


Figure 2-24 Overview

Steps:

1. Place the drill template on the wall/ceiling and mark screw positions.
2. Route the cables inside the ceiling or on the surface. If you want to route the cables inside the ceiling, drill the cable hole with the drill template in the ceiling for wiring; pull all cables through the hole and terminate all wires (if not already terminated).
3. Connect the video cable and power cable and use the screws to secure the mounting base with camera.

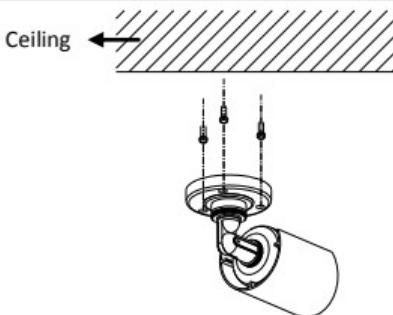


Figure 2-25 Bullet Camera Installation

4. Three-axis adjustment.

- 1). Preview the image of the camera on a monitor.

Note: You must loosen the lock screw before adjustment and tighten it when you adjusted it.

- 2). Rotate the panning axis to adjust the panning position of the camera.
The adjustable range is from 0 degree to 360 degrees.
- 3). Rotate the tilting axis to adjust the tilting position of the camera. The
adjustable range is from 0 degree to 90 degrees.
- 4). Rotate the lens to adjust the azimuth angle of the image. The
adjustable range is from 0 degree to 360 degrees.

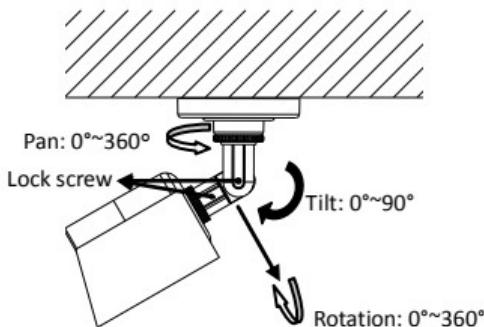


Figure 2-26 3-axis Adjustment

2.5 Installation of DS-2CE1582P(N)-IR1(IR3) Bullet Camera

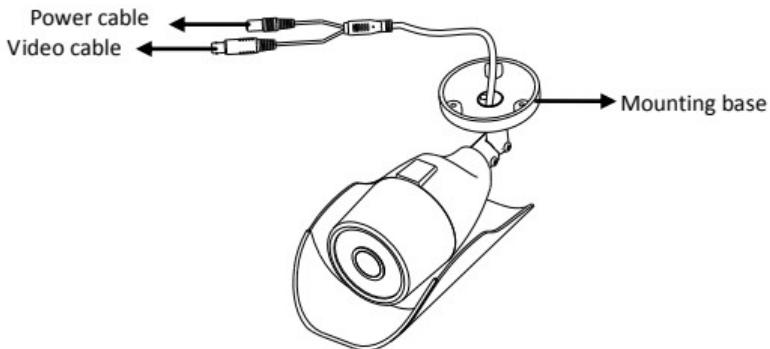


Figure 2-27 Overview

Steps:

1. Drill the holes on the wall with the supplied drilling template.

2. Route the cables inside the ceiling or on the surface. If you want to route the cables inside the ceiling, drill the cable hole in the ceiling for wiring; pull all cables through the hole and terminate all wires (if not already terminated).
3. Connect the video cable and power cable and secure the mounting base with camera to the wall with supplied screws.

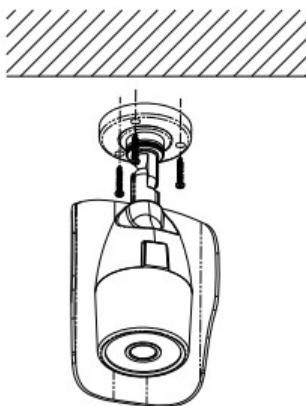


Figure 2-28 Secure the Camera

4. Three-axis adjustment.
 - 1). Rotate the panning axis to adjust the panning position of the camera. The adjustment range is from 0 degree to 360 degree.
 - 2). Loosen the lock screw-1, and rotate the tilting axis to adjust the tilting position of the camera. The adjustment range is from 0 degree to 90 degree.
 - 3). Tighten the tilting axis lock screw-1.
 - 4). Loosen the lock screw-2, and rotate the rotation axis to adjust the azimuth angle of the image.

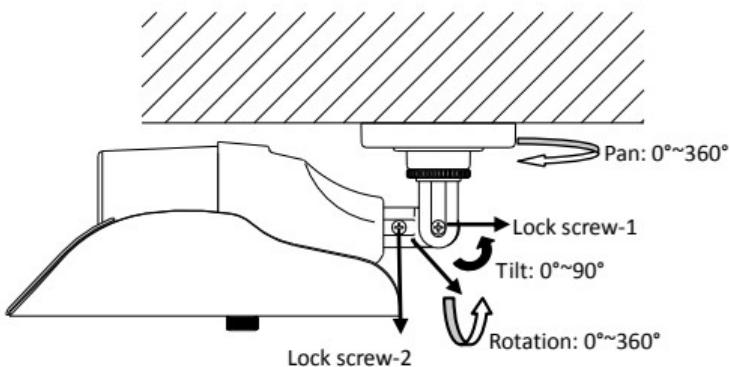


Figure 2-29 3-axis Adjustment

5. Tighten the rotation axis lock screw-2 to finish the installation.

2.6 Installation of DS-2CE5582P(N)-IR1(IR3) Dome Camera

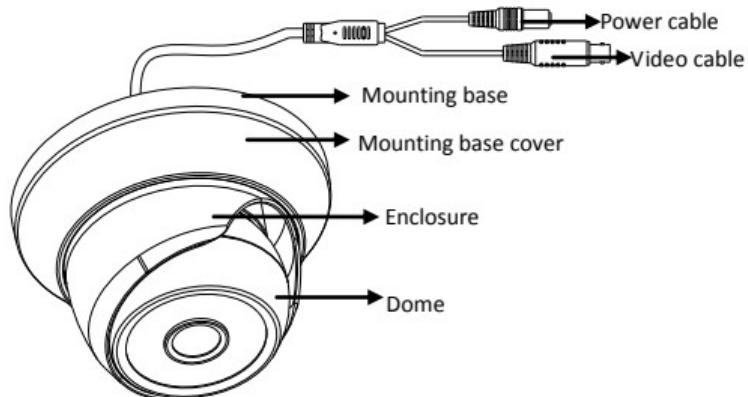


Figure 2-30 Overview

Steps:

1. Rotate to remove the mounting base cover. Loosen the screw on the mounting base and remove the enclosure and dome from the camera.

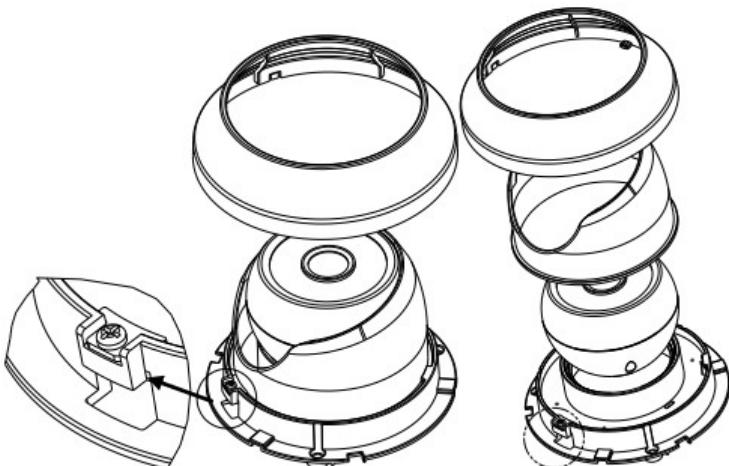


Figure 2-31 Remove the Enclosure

2. Drill the holes on the ceiling with the supplied drilling template.
3. Route the cables inside the ceiling or on the surface. If you want to route the cables inside the ceiling, drill the cable hole in the ceiling for wiring; pull all cables through the hole and terminate all wires (if not already terminated).
4. Connect the video cable and power cable. Align the holes on the ceiling with the ones on the mounting base and tighten the screws to secure the mounting base in the ceiling. Reinstall the dome and enclosure. Fasten the screw slightly but not tightly.

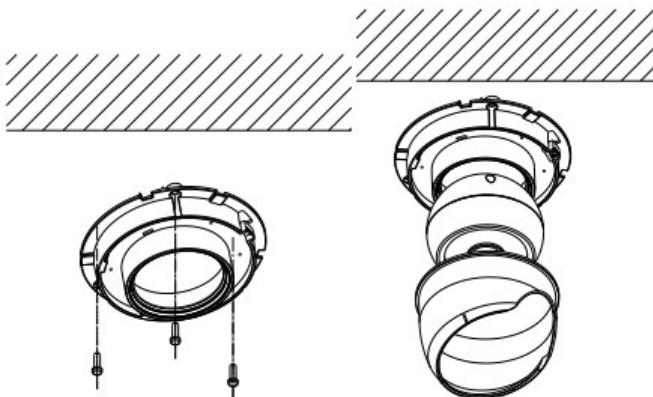


Figure 2-32 Ceiling Mounting

- Preview the image of the camera on a monitor and loosen the screw on the mounting base and adjust the lens to the desired angle.

Note: The adjustable tilt angle range is $0^\circ \sim 75^\circ$.

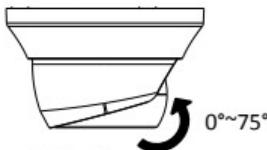


Figure 2-33 Tilt Angle Range

- Tighten the screw and reinstall the mounting base cover to finish the installation.

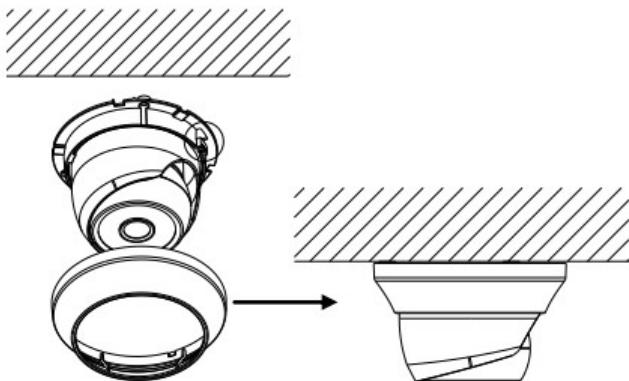


Figure 2-34 Finish the Installation

2.7 Power Supply

Please make sure that the power adapter can match with the camera. The standard power supply of the camera is usually 12V DC or 24V AC (Please refer to technical specifications for more details).

First Choice for Security Professionals